

|   | Type | L # | Hits | Search Text                            | DBs   | Time Stamp           | Comments |
|---|------|-----|------|--|---|----------------------|----------|
| 1 | IS&R | L1  | 2    | ( ("4297606") or<br>("5866815")) . PN. | USPAT   | 2006/07/1<br>2 08:57 |          |
| 2 | IS&R | L2  | 1    | ("4297607") . PN.                      | USPAT   | 2006/07/1<br>2 09:04 |          |
| 3 | BRS  | L3  | 71   | Magori-valentin.in.                    | USPAT<br>;<br>USOCR<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB | 2006/07/1<br>2 09:08 |          |
| 4 | BRS  | L4  | 4    | luhr-peter.in.                         | USPAT<br>;<br>USOCR<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB | 2006/07/1<br>2 09:08 |          |
| 5 | IS&R | L5  | 388  | (310/322) . CCLS.                      | USPAT   | 2006/07/1<br>2 09:15 |          |
| 6 | IS&R | L6  | 149  | (310/322) . CCLS.                      | US-<br>PGPUB<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB        | 2006/07/1<br>2 09:19 |          |
| 7 | IS&R | L7  | 166  | (310/334-336) . CCLS.                  | US-<br>PGPUB<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB        | 2006/07/1<br>2 09:22 |          |
| 8 | IS&R | L8  | 1048 | (310/334) . CCLS.                      | USPAT   | 2006/07/1<br>2 09:37 |          |

|    | Type | L # | Hits | Search Text                                       | DBs  | Time Stamp       | Comments |
|----|------|-----|------|---|--|------------------|----------|
| 9  | IS&R | L9  | 634  | (310/335-336) .CCLS.                              | USPAT  | 2006/07/12 09:49 |          |
| 10 | IS&R | L10 | 398  | (310/326) .CCLS.                                  | USPAT  | 2006/07/12 09:55 |          |
| 11 | IS&R | L11 | 46   | (310/326) .CCLS.                                  | US-PGPUB;<br>EPO;<br>JPO;<br>DERVENT;<br>IBM_T<br>DB | 2006/07/12 09:56 |          |
| 12 | IS&R | L12 | 10   | (310/327) .CCLS.                                  | US-PGPUB;<br>EPO;<br>JPO;<br>DERVENT;<br>IBM_T<br>DB | 2006/07/12 09:57 |          |
| 13 | IS&R | L13 | 216  | (310/327) .CCLS.                                  | USPAT  | 2006/07/12 10:02 |          |
| 14 | BRS  | L14 | 1013 | matching same (ring or annular) and piezoelectric | USOCR;<br>EPO;<br>JPO;<br>DERVENT;<br>IBM_T<br>DB    | 2006/07/12 10:25 |          |

|    | Type | L # | Hits | Search Text                                  | DBs  | Time Stamp           | Comments |
|----|------|-----|------|--|--|----------------------|----------|
| 15 | BRS  | L15 | 83   | matching same piezoelectric and "side lobes" | US-<br>PGPUB<br>;<br>USPAT<br>;<br>USOCR<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB | 2006/07/1<br>2 10:30 |          |
| 16 | BRS  | L16 | 40   | deserno-rolf.in. or pfeiffer-helmut.in.      | US-<br>PGPUB<br>;<br>USPAT<br>;<br>USOCR<br>;<br>EPO;<br>JPO;<br>DERWE<br>NT;<br>IBM_T<br>DB | 2006/07/1<br>2 10:31 |          |

# Searching PAJ

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## Search Results : 4

**Index Indication****Clear****Text Search**

If you want to conduct a Number Search, please click on  
the button to the right.

**Number Search****Applicant,Title of invention,Abstract — e.g. computer semiconductor**

If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

ring annular

**OR****AND**

piezoelectric matching

**AND****AND**

housing casing

**OR****AND****Date of publication of application — e.g.19980401 - 19980405** - **AND****IPC — e.g. D01B7/04 A01C11/02**

If you use the OR operation, please leave a SPACE between keywords.

**Search****Stored data**

**RESULT LIST**

7 results found in the Worldwide database for:  
**piezoelectric and ring and matching and housing** in the title or abstract  
(Results are sorted by date of upload in database)

**1 Sound of ultrasound sensor**

Inventor: DESERNO ROLF (DE); PFEIFFER HELMUT (DE)  
EC: H04R17/00  
Publication info: **US2006076854** - 2006-04-13

Applicant: ENDRESS & HAUSER GMBH & CO KG  
IPC: **H01L41/08; H04R17/00; H01L41/08** (+1)

**2 Ultrasonic sensor assembly for use in logging-while-drilling applications**

Inventor: MASSON JEAN-PIERRE (US); PABON MIGUEL F (US)  
EC: B06B1/06E6C; E21B47/08C; (+1)  
Publication info: **GB2355528** - 2001-04-25

Applicant: SCHLUMBERGER HOLDINGS (VG)  
IPC: **B06B1/06; E21B47/08; G01V1/52** (+5)

**3 PIEZOELECTRIC ELEMENT FOR ULTRASONIC PROBE**

Inventor: WAKABAYASHI KATSUHIRO; SAWADA YUKIHIKO; (+1)  
EC: A61B8/12D; B06B1/06E3  
Publication info: **JP8280098** - 1996-10-22

Applicant: OLYMPUS OPTICAL CO  
IPC: **A61B8/12; B06B1/06; A61B8/12** (+4)

**4 Acoustic transducer**

Inventor: BROWN WILLIAM J (CA); CHEREK BOGDAN (CA); (+1)  
EC: B06B1/06E6F; G01H11/08  
Publication info: **US5339292** - 1994-08-16

Applicant: FEDERAL IND IND GROUP INC (CA)  
IPC: **B06B1/06; G01H11/08; B06B1/06** (+3)

**5 Piezoelectric acoustic transducer**

Inventor: BROWN WILLIAM JOHN; VIUHKO HENRY THOMAS; (+1)  
EC: B06B1/06E6F; G01H11/08  
Publication info: **GB2260059** - 1993-03-31

Applicant: FEDERAL IND IND GROUP INC (CA)  
IPC: **B06B1/06; G01H11/08; B06B1/06** (+2)

**6 ULTRASONIC VIBRATOR**

Inventor: UNO MASATAKE; KATAYAMA SUSUMU  
EC:  
Publication info: **JP5328498** - 1993-12-10

Applicant: MATSUSHITA ELECTRIC WORKS LTD  
IPC: **H04R17/00; H04R17/10; H04R17/00** (+3)

**7 ULTRASONIC TRANSDUCER**

Inventor:  
EC: B06B1/06C3A  
Publication info: **GB1313535** - 1973-04-11

Applicant: PARKE DAVIS & CO  
IPC: **B06B1/06; B06B1/06; (IPC1-7): H04R17/00**

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**RESULT LIST**

1 result found in the Worldwide database for:  
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(Results are sorted by date of upload in database)

**1 ULTRASONIC TRANSDUCER**

Inventor:

EC: B06B1/06C3A

Applicant: PARKE DAVIS & CO

IPC: **B06B1/06; B06B1/06**; (IPC1-7): H04R17/00

Publication info: **GB1313535** - 1973-04-11

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IPC: **B06B1/06; E21B47/08; G01V1/52** (+5)

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IPC: **A61B8/12; B06B1/06; A61B8/12** (+4)

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IPC: **B06B1/06; G01H11/08; B06B1/06** (+3)

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Inventor: BROWN WILLIAM JOHN; VIUHKO HENRY THOMAS; (+1)  
EC: B06B1/06E6F; G01H11/08  
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IPC: **B06B1/06; G01H11/08; B06B1/06** (+2)

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Publication info: **GB1313535** - 1973-04-11

Applicant: PARKE DAVIS & CO  
IPC: **B06B1/06; B06B1/06; (IPC1-7): H04R17/00**

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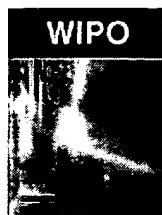
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**RESULT LIST**

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**Results of searching in PCT for:**  
**piezoelectric and ( ring or annular ) and matching and ( housing or casing ): 0 records**

[New]

[Search S...]



No records matching your query found in PCT

#### Search Summary

**piezoelectric:** 5994 occurrences in 2242 records.

**ring:** 44211 occurrences in 20652 records.

**annular:** 13413 occurrences in 7005 records.

**(ring OR annular):** 26433 records.

**(piezoelectric AND (ring OR annular)):** 55 records.

**matching:** 6816 occurrences in 4429 records.

**((piezoelectric AND (ring OR annular)) AND matching):** 0 records.

**housing:** 69533 occurrences in 27245 records.

**casing:** 12671 occurrences in 4932 records.

**(housing OR casing):** 31703 records.

**((piezoelectric AND (ring OR annular)) AND matching) AND (housing OR casing):** 0 records.

Search Time: 0.45 seconds.



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**Search**   Query :

((housing or casing)) &lt;AND&gt; ( ( (aco

Query: ((housing or casing)) <AND> ( ( (acoustic\*) ) <in> abstract ) <AND>  
( ( (matching and piezoelectric and ring) ) <in> claims )1 documents out of 1679158 matched your query. Click on its number  
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## Canadian Patents Database

### Search Results    07/12/2006 - 10:41:17

 Query :

((housing or casing)) &lt;AND&gt; ( ( (aco

Query: ((housing or casing)) <AND> ( ( (acoustic\*) ) <in> abstract ) <AND>  
(( (matching and piezoelectric and annular) ) <in> claims )1 documents out of 1679158 matched your query. Click on its number  
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- 
- |                            |   |     |
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| 1. <a href="#">1207429</a> | ELECTROACOUSTIC TRANSDUCER OF<br>THE PIEZOELECTRIC POLYMER TYPE | 89% |
|----------------------------|---|-----|
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